

FIG. 1A

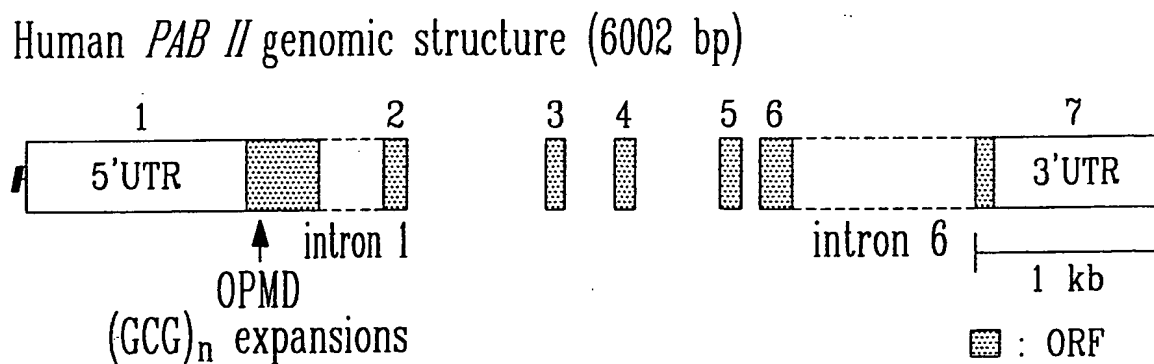


FIG. 1B



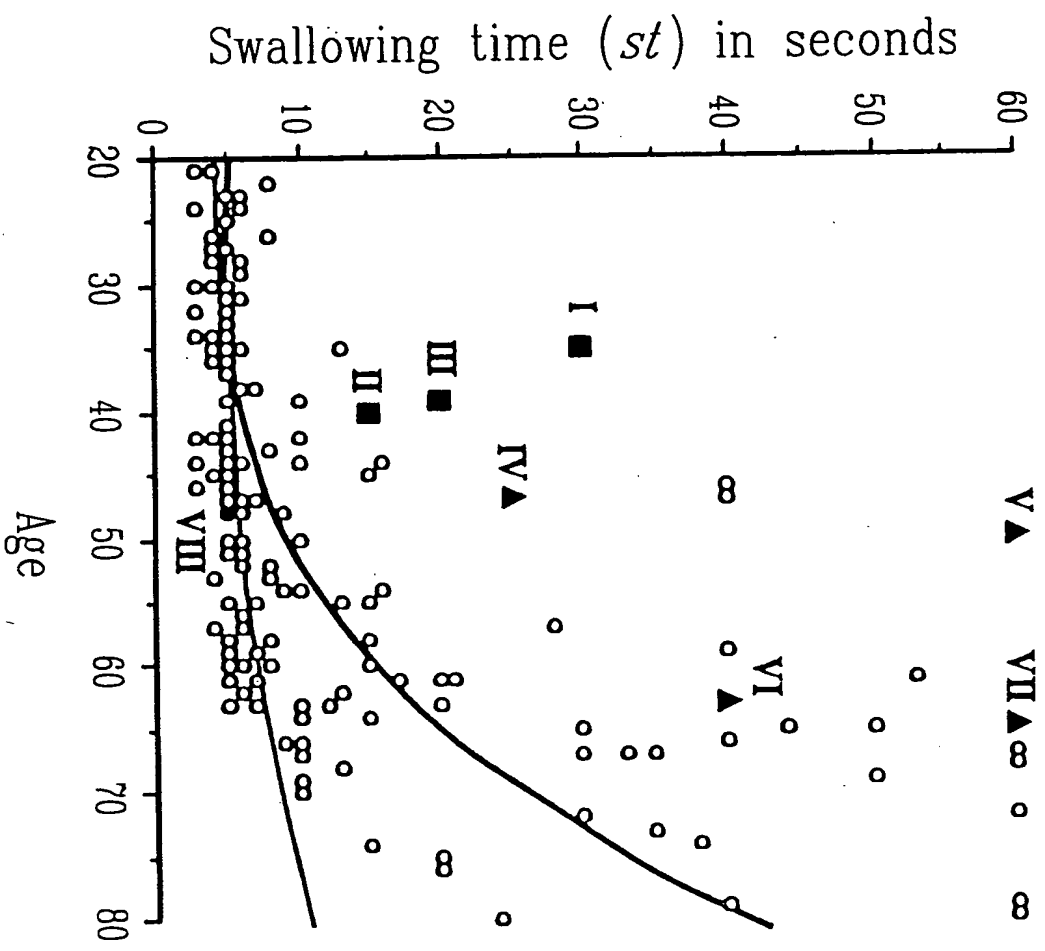


FIG. 3

09590211.060800

1 aatgaagtg gacaccccaa tagcccaat acaaatgcct gttcaatcaa ccaacatct  
61 aagcagcaca tctatgtgt agcatattgc caggccgtga gactgcgaat ataatagga  
121 accgcccctc atctgcagc gctcacaacc tagttaagcaa acagtaaac attaagcgc  
181 gccgtgaca taggccact tgtcctggga aatgaggga agctgggtt tgcagtggt  
241 tgattgaag ggaactacat gttagaggca cagactgggt gcaggtacac ccaaggaaac  
301 gaagaagagt gaagaaaaca acatccacaa agtaaccaca tgcctggcgt tcaaggccg  
361 tgatttacg tttgagact ttacctgcc agcaaaaggg gccagttcty ttagcgtgc  
421 agattgagag ggtgacattg gaagctgtcc agyaaaagga aatggaact gggagagaga  
481 aggcctacgc aagaaggcgg gacagacagg acttgtgact agtagctcty gactgagga  
541 tcctccctgc ttctgtgc gggagagcta gtgatatg gtgccaataa cctgatatg  
601 gaaagtgaag tccctcctg aatgcttcat tcacaaccct cattttcagc aacatcccat  
661 ctactgtgc ttcctgtcg agatacaagt ttcctgaac tgcctgctcty tttyggcct  
721 caccggcca acagctcact agctggcaag cagtagtata aagatggcgg cccctagga  
781 ctggtagtc atgtgacct gggtttccca agtttgaag ccggcagtc tttyggggc  
841 aaggttcacc tgtcacgaaa cgagtgtcac cccttcgact ctgcaagcc aatcgcatac  
901 tgaagactgg ccaactgcgt gaggcgatacg gaagattggt ccttccagt cgcctagcta  
961 ggccaatca cggagcgtcc cataactcgc gggcccgccc gtaggccgg gaggaagcag  
1021 aatatcgtca cagcgtggcg gtattattac ctaagactc gataggagt gggacgcgt  
1081 ttgattgaca ggcagatttc cctaccggga ttgagaatt tggcgagtg cccgccttag  
1141 agtgcgctt atttgattgc caagtaatat tcccgaatgg agtactagct catggtgacg

FIG. 4A

1201 ggcagggcagc ttgagctaat gagtccctccg ttggccggcgc agctctccac atgccggggcg  
1261 gccggcccca gtctgagcgg cgatggcggc gccggccggcg gccggcagcag cagcggggggc  
1321 tgcggggcgt cggggtccg gccggggggc gccggcccat ctgtgtcccg gggccgggtgg  
1381 ggagggccggg gaaggggccc cggggggcgc aggggactac gggaacggcc tggagtctga  
1441 ggaactggag cctgaggagc tgtgtctgga gcccgagccg gaggccgagc ccgaagagga  
1501 gccgccccgg ccccgcgccc ccccgggagc tccgggccct gggccttgtt cgggagcccc  
1561 cggcagccaa gaaggaggag aggagccggg actgttcgag ggtgaaccgg gggacggcgc  
1621 cattgaggac ccgttgagg aaggaggcga gccgagcagc cggcggctgg cgcgtcactg  
1681 gagggccaga gctcggggca gccgtggcag gccgggggtg ggttgggcg gggaataacg  
1741 tggctggggc ggtcggggc ggggatgggt cagcgatcac taccaaggggc ccgactggct  
1801 tgatcgggc gtcacgggtg cctagtgtg ttctagagag gtagctttt ctttatcac  
1861 gaccctcgca ttggggcggag gaaatggccg agcatggctg aggcgcgctc ttggccgagag  
1921 cagggcacag cccctgcgtt gttcctctt aagctgtcct ccataccctc cccacttata  
1981 ttaggagctg gaagctatca aagctcgagt cagggaagatg gaaggagaag ctgagaagct  
2041 aaagagcta cagaacgagg tagaagaagca gatgaatatg agtccaccctc caggcaatgc  
2101 tgaagtaactg gccgttgca cgcgagcccg ggttctcggg ttggaagggt tgtggggagg  
2161 atggggaatg ttgggttaga tactcggcac cctggagctg cttgtctgag ctattatgac  
2221 tgtgcccgcg tcatagtcag ttgtgtgttc ctctgaccct tgtgaggcag aactgatat  
2281 ttgtgtgtg tagccttgt cctcccttg tcctgttata attgtgtgac tcttatctt  
2341 tagttactac ctatctttct ttggtagagg ttgcgtgctc gcaattgacc ttcaaatcta

FIG. 4B

2401 atagttttc ctccaattgg agacgccttta gгатtcttaag agaaagcaag ctggaagggg  
2461 ttcccccctt aaattctaга aatgtggagt ctcaгcccac ttaatttgc tcactctaa  
2521 aagcatttca accaaagcca ttcatttaгgг atttgatttg gaggгcagga gggatccta  
2581 tactgtttta agtgtgtatt aattccttca atttatcgaa ttatttagtg agtaacctgc  
2641 tatgcactag gcactattct cggcctgttg gtacagcagг gaacagcaca gaccaaatc  
2701 ttgccttca ctgagccttat gggatagtgc tggtgttgga agtgcaacat atggtcaag  
2761 taгaaaaacaa gtgtgtgtt ttgtaaaaa attattttt cctgatagct gggccggtga  
2821 tcatgtccat tgagгaggaag atgгagгctg atggccgгtc catctatgtt gгcaatgtga  
2881 cgtactgгgг ctctgactgг ggttgгgгgc aagtctctc tttgгgгаat tattaatag  
2941 tcctгaaaga acatctccгг gataгatgtg gttttgгtg tгgagгgagt gtgгgaaгga  
3001 ggttaaggt aatgгаatga tcagtaatca gcaagгctc tgggtttgga agгaaagag  
3061 attaatcct caaattacca gatttcatgt gctttgгtg atgatgгcc agaccaagг  
3121 ctгgгagгgг ttcttttgag acagгaatтt gcctgгtgcc tgtгаaatт ttctcctc  
3181 atcaggtgga ctatgгtgca acagcaggaag agctgгаagc tcacttcat gгctgtgtt  
3241 cagtcaaccг tgttaccata ctgtgtgaca aatttagtgг ccattccaa ggtaaagtaa  
3301 agggгagгtaa gttgagataa tttaaatlac agtgtacaaa tagataaat atgtttata  
3361 ttgagcagta agttatttg tgttaacaca ggtgatctgt gtcatttaг atcatgгcat  
3421 taatgttgat atatcagгag ttgcaacctaa atgtcttcag agгccagata acaaaatga  
3481 aggctaгatg tgggtgгgat tacгaaactag aagгgгagгг gcaгcttcta ctgгcctat  
3541 tatgгcatat gгаaattcag gccctgtgtg tcttattttt acaaatтca aagagtagct

FIG. 4C

3601 ggaatttta aatttaaat gatttcgaat gattgaaatt ttccatttag aagaattttg  
3661 acaataaaaa aatataactg catgttagcc caaaaacgaag catgacctga gttggaattt  
3721 gacctgtgag gtattgttaa cctcagagag atacaatgac aattcctttc aggtttgcgt  
3781 atatagagt ctacagacaaa gagtcagtga ggaacttcctt ggccttagat ggtccctat  
3841 ttagaggaag gcaaatcaag gtaagcctat gtccattgct gttctagttg tgtataaact  
3901 ctccaggttg cctttaagc tatcatttgt tcatctctga ctcaagtgat cccaaaacga  
3961 accaacagac cagycatcag cacaaacagac cgaggttttc cacgagcccg ctaccgcgc  
4021 cggaaccacca actacaacag ctcccgctct cgattctaca gtggttttaa cagcaguccc  
4081 cggggtcgcg tctacaggtc aggatagatg ggctgtctct cttcccccgc cctcccgtag  
4141 gccccgtatg ctctctctc tctgtctga ggaacctccc tccccccacc cctcccgtag  
4201 gtcttcagga acttgtctc ctgcctgtgc aggttgagga aggtagttgc aggcagucc  
4261 agaagcgagc ctcatcatct ttctgcagt agaatltgt gataagggt gcatccctc  
4321 ctgtgttcaa agaggttcc accccacgac tttttttct tggagttgg tggcattga  
4381 agtgttttgc ggaacaaact gggaagaaaca gggcctccag gaagttgaaa gcactgctg  
4441 gacatttgtt acttttttcg gagttaggga ggatltgaag actgaacctc ccttggaaga  
4501 ataccagagg ctagttagt gatacctccca acagccttgt gggaggtatt tgagatactt  
4561 attctttatt tgaagccagtc ttgcaaggtt aacttctcac tgggcctagt gtgtnccca  
4621 ggtttttgcc ttgtctcact tctgtctcta catttaataa gacgggttag gcatataaac  
4681 ctggtcttt catlaagctct acctgacctat ccccgaggt tagggaggt ctatttgtga  
4741 aggccctaggt gtttaaaaac tgtgagggac tgaaaaactg gataaaaagg ggttccttt

FIG. 4D

4801 ccttgcccct gtctctcact cagatgcgct tcttttcgc cactgttttg caaagtttc  
4861 tgttaagccc ccctcccccct gccccagttc tcccaggtgc gttactattt ctggatcat  
4921 ggggtcgggt ttagacact tgaaccactc tttccccc ttccctcac agtaactggg  
4981 gcaggggcct acggggaggg gcttgtactg aactatctag tgatcacgtt aacacctaac  
5041 tctccttctt tcttcaggg gccgggctag agcgacatca tgytatccc ctactaaaa  
5101 aaagtgtgta ttaggaggag agagaggaaa aaaaggagaa agaaagaaaa tttttaaa  
5161 taaaaaaaa aaaaagaaa acagaaagatg accctgatgg aaaaaaata tttttaaa  
5221 aaaagatata ctgtggaag ggggagaatc ccataactaa ctgtgagga gggacctgct  
5281 ttggggagta ggggaaggcc cagggaagtgg ggcagggggc tgcttatca ctctgggat  
5341 tcgccatgga cacgtctcaa ctgcgcaagc tgcctggcca tgttccctg ccccttcac  
5401 ccccttggc ctgctcaagg gtaagtggc gtgggtgta ggagggttt tttaaccag  
5461 ggctctgga ggaacaccaa ctgttctgct tgttacctc cctccgtct tctcctgcc  
5521 ttccacagtc ccctcctgcc tgcctcctgc cagccagtc taccaccac cccaccctc  
5581 ttctccggc tccctgccc tccagattgc ctggtgatct atttgttc ctttgtgt  
5641 tcttttctg tttgagtg ttttcttgcc aggttctgt agccggaaga tctccgttc  
5701 gctcccagcg gctccaagt aaattcccc tccccctgg gaaatgcact acctgttt  
5761 ggagggttta ggggtgttt tgttttccag ttgtttgt ttttgttt ttttttcc  
5821 ttgcccctt tccctttta ttggaaggaa atgggaaggaa gtgggaacag ggaagtgga  
5881 ggtgatttt gttatttt ttagctcat tccagggtg gaaatttt tttaatagt  
5941 gtcatgaata aagttgttt tgaaaaata aaaaaaaaaa aaaaaaaaaa  
6001 aa

FIG. 4E